

Appl. No. 10/707,361  
Amdt. Dated June 8, 2006  
Reply to Office Action of March 8, 2006

**Amendments to the Specification:**

Please replace paragraph [0016] with the following amended paragraph:

[0016] Referring to Figure 1, a device used in a method for manufacturing an optical element, such as a light guide plate, in accordance with the present invention includes an injector 10, a mold 20 and ~~[[a]]~~ an inflator 30. The injector 10 includes a sleeve 11, a rotatable screw 12 inside the sleeve 11, a motor 13 driving the screw 12, a hopper 14 supplying resin material to the sleeve 11, and a plurality of heaters 15 located around an outside of the sleeve 11. The mold 20 includes a cover half 21, a moving die 22, a plurality of projections 27, a runner 23 through which molten resin can pass, and a sprue 24 communicating with the runner 23. The cover half 21 and the moving die 22 cooperatively define a cavity 26 therebetween, which is used for forming the light guide plate (not shown). The moving die 22 defines a channel 25 therein distal from the cover half 21. The channel 25 provides space which enables the projections 27 to be moved toward the cover half 21, so that the projections 27 can eject a formed light guide plate from the mold 20. The inflator 30 includes a gas passage 31 and a gas cavity 32. The gas passage 31 is connected to the sleeve 11 when the sleeve 11 is charged with gas.

Please replace paragraph [0018] with the following amended paragraph:

[0018] Referring to Figures 1 and 2, a method for manufacturing an optical element, such as a light guide plate, includes the steps of providing the mold 20, melting resin material and mixing an inert gas into the molten resin material, injecting the mixture of the molten resin material and the inert gas into the cavity 26 of the mold 20, cooling the mold 20 under a

Appl. No. 10/707,361

Amdt. Dated June 8, 2006

Reply to Office Action of March 8, 2006

constant pressure, and demolding and taking the light guide plate out from the mold 20. Details are as follows:

Please replace paragraph [0022] with the following amended paragraph:

[0022] The inert gas is a suitable noble gas, such as argon (Ar), helium (He), or neon (Ne). In an alternative embodiment, nitrogen may be used instead of ~~an inert~~ a noble gas. Before being charged into the sleeve 11, the inert gas is heated to a temperature in the range from 100~120°C, preferably 110°C.